

Title (en)
METHOD AND DEVICE FOR REGULATING A WIND MACHINE

Title (de)
REGELUNGSSYSTEM FÜR EINE WINDKRAFTANLAGE

Title (fr)
PROCEDE ET DISPOSITIF DE REGULATION D'UNE EOLIENNE

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Application
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Abstract (en)
[origin: US2004075278A1] The invention concerns an installation for producing electric power comprising an electrical alternator (7) having a rotor preferably with permanent magnets integral with the rotating part (5, 6) of the wind machine, to constitute a rotary assembly (5, 6, 8) and a power electronics (12) module including means for converting (15) the alternating current produced by the alternator (7) into direct current. The method consists in adjusting the electrical characteristics of the electric current produced by the alternator (7) and the rotational speed of the rotary assembly (5, 6, 8) by modulating the direct current produced by the power electronics (12) module converting means (15). Preferably, the power electronics (12) comprises a pulse-width modulating rectifier (15), a rheostatic chopper (16) and a pulse-width modulating inverter (17) interconnected by a direct current bus (18). The inventive method and device enable to enhance the control of the wind machine in accordance with atmospheric conditions.

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